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By Michelle Chan
Michelle Chan

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No.	:	To be Assigned	Confirmation No.:
Applicant	:	Ring-Ling Chien et al.	
Filed	:	Herewith	
TC/A.U.	:	1753	
Examiner	:	Alexander Noguerola	
Docket No.	:	100/12330	
Customer No.	:	021569	
Title	:	MICROFLUIDIC METHODS, DEVICES AND SYSTEMS FOR IN SITU MATERIAL CONCENTRATION	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

The references cited on the attached form PTO-1449 are being called to the attention of the Examiner. This application is a continuation-in-part of U.S.S.N. 10/206,386, filed July 26, 2002, which is a continuation in part of U.S.S.N. 10/013,847, filed October 30, 2001. All references cited in the attached form 1449 have been previously cited in these applications. Copies of documents are therefore not being provided pursuant to 37 CFR §1.98(d). If copies of the references are not available to the Examiner, the Examiner is invited to contact the undersigned.

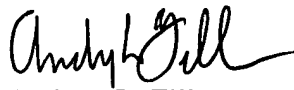
It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Appl. No. To be Assigned
Ring-Ling Chien et al.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is made that a search has been conducted or that this statement encompasses all possible relevant information.

Applicants believe that no fee is required for submission of this statement, since it is being submitted within three months of the filing date or prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to charge such fee to Deposit Account No. 03-0177. Please charge any additional fees or credit any overpayment to the above-noted deposit account.

Respectfully submitted,



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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known			
		Application Number			
		Filing Date	Herewith		
		First Named Inventor	Chien		
		Art Unit	1753		
		Examiner Name	Noguerola		
Sheet		of		Attorney Docket Number	100/12330

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number - Kind Code (if known)			
	AA	US-4,390,403	06-28-1983	Batchelder	
	AB	US-4,908,112	03-13-1990	Pace	
	AC	US-5,089,099	02-18-1992	Chien et al.	
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	BU	US-6,319,379	11-20-2001	Davidson et al.	
	BV	US-20020003089	01-10-2001	DeVault	

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Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code - Number - Kind Code (if known)				
	BW	WO-9515981	06-15-1995	University of Utah		
	BX	WO-9604547	02-15-1996	Lockheed		
	BY	WO-9702357	01-23-1997	Affymetrix		
	BZ	WO-0163270	08-30-2001	Caliper		

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T	
	CA	BECKERS, J.L. et al., "Sample Staking in Capillary Zone Electrophoresis: Principles, Advantages and Limitations," <u>Electrophoresis</u> (2000) 21:2747-2767		
	CB	BHARADWAJ, R. et al., "Dynamics of Field Amplified Sample Stacking," ASME Expo (2001) 1-8		
	CC	BOCEK, P. et al., "Dynamic Programming of pH-A New Option in Analytical Capillary Electrophoresis," <u>J. of Chromatogr.</u> (1989) 470:309-312		
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	CF	BURGI, D.S. et al., "Optimization in Sample Stacking for High-Performance Capillary Electrophoresis," <u>Anal. Chem.</u> (1991) 63:2042-2047		
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	CI	CHIEN, R. et al., "Field-Amplified Polarity-Switching Sample Injection in High-Performance Capillary Electrophoresis," <u>J. of Chrom.</u> (1991) 559:153-161		
	CJ	CHIEN, R. et al., "Sample Stacking of an Extremely Large Injection Volume in High-Performance Capillary Electrophoresis," <u>Anal. Chem.</u> (1992) 64:1046-1050		
	CK	CHIEN, R. et al., "On-Column Sample Concentration Using Field Amplification in CZE," <u>Anal. Chem.</u> (1992) 64:489A-496A		
	CL	CHIEN, R. et al., "Multiport Flow-Control System for Lab-on-a-Chip Microfluidic Devices," <u>Anal. Chem.</u> (2001)371:106-111		
	CM	CHIEN, R. et al., Comment on "Electrokinetic Stacking Injection of Neutral Analytes under Continuous Conductivity Conditions," <u>Anal. Chem.</u> (2002) 74:3929-3930		
	CN	DASGUPTA, P.K. et al., "Electroosmosis: A Reliable Fluid Propulsion System for Flow Injection Analysis," <u>Anal. Chem.</u> (1994) 66:1792-1798		
	CO	DAVIS, B.J. et al., "Disc Electrophoresis-II Method and Application to Human Serum Proteins*," <u>Ann. N.Y. Acad. Sci.</u> (1964) 121:404-427		

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	CP	EFFENHAUSER, C.S. et al., "Glass Chips for High-Speed Capillary Electrophoresis Separations with Submicrometer Plate Heights," <u>Anal. Chem.</u> (1993) 65: 2637-2642	
	CQ	EFFENHAUSER, C.S. et al., "High Speed Separation of Anitsense Oligonucleotides on a Micromachined Capillary Electrophoresis Device," <u>Anal. Chem.</u> (1994) 66: 2949-2953	
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	CS	EFFENHAUSER, C.S. et al., "Manipulation of Sample Fractions on a Capillary Electrophoresis Chip," <u>Anal. Chem.</u> (1995) 67:2284-2287	
	CT	EVERAERTS, F.M. et al., "Analytical Isotachophoresis," <u>J. of Chromatogr.</u> (1976) 119:129-155	
	CU	FAN, Z.H. et al., "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," <u>Anal. Chem.</u> (1994) 66: 177-184	
	CV	FISTER, J.C. III et al., "Counting Single Chromophore Molecules for Ultrasensitive Analysis and Separations on Microchip Devices," <u>Anal. Chem.</u> (1998) 70: 431-437	
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	DB	HARRISON, J. et al., "Towards Miniaturized Electrophoresis and Chemical Analysis Systems on Silicon: An Alternative to Chemical Sensors*," <u>Sensors and Actuators B</u> (1993) 10: 107-116	
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	DE	HJERTEN, S. et al., "Some Aspects of the Use of "Continuous" and "Discontinuous" Buffer Systems in Polyacrylamide Gel Electrophoresis," <u>Anal. Biochem.</u> (1965) 11:219-223	

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	DF	HJERTEN, S. "Free Zone Electrophoresis," <u>Chromatog. Rev.</u> (1967) 9:122-219	
	DG	HJERTEN, S. et al., "New Approaches to Concentration on a Microliter Scale of Dilute Samples, Particularly Biopolymers with Special Reference to Analysis of Peptides and Proteins by Capillary Electrophoresis I. Theory," <u>J. of Chromatogr.</u> (1994) 676:409-420	
	DH	HUTTA, M. et al., "Solid Phase Extraction for Sample Preparation in Trace Analysis of Ionogenic Compounds by Capillary Isotachophoresis," <u>Journal of Radioanalytical and Nuclear Chemistry</u> (1992) 163:87-98	
	DI	JACOBSON, S.C. et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <u>Anal. Chem.</u> (1994) 66:1107-1113	
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	DR	JACOBSON, S.C. et al., "Microfluidic Devices for Electrokinetically Driven Parallel and Serial Mixing," <u>Anal. Chem.</u> (1999) 71: 4455-4459	
	DS	JORGENSEN, J.W. et al., "Zone Electrophoresis in Open-Tubular Glass Capillaries," <u>Anal. Chem.</u> (1981) 53:1298-1302	
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	DU	KHANDURINA, J. et al., "Microfabricated Porous Membrane Structure for Sample Concentration and Electrophoretic Analysis," <u>Anal. Chem.</u> (1999) 71:1815-1819	

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	DV	KRIVANKOVA, L. et al., "Options in Electrolyte Systems for On-Line Combined Capillary Isotachopheresis and Capillary Zone Electrophoresis," <u>J. of Chromatogr.</u> (1993) 638:119-135	
	DW	KRIVANKOVA, L. et al., "Capillary Isotachopheresis," <u>J. Chromatogr.</u> (1993) 638:1190135	
	DX	KULDVEE, R. et al., "Head Column Field-Amplified Stacking From the Flow: Stabilization of the Sample Plug Position by Using Backpressure," <u>Electrophoresis</u> (2000) 21:2879-2885	
	DY	KUTTER, J.P. et al., "Determination of Metal Cations in Microchip Electrophoresis Using On-Chip Complexation and Sample Stacking," <u>J. Microcolumn Separations</u> (1998) 10:313-319	
	DZ	LICHTENBERG, J. et al., "Sample Preconcentration by Field Amplification Stacking for Microchip-Based Capillary Electrophoresis," <u>Electrophoresis</u> (2001) 22:258-271	
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	EJ	MIKKERS, F.E.P. et al., "High-Performance Zone Electrophoresis," <u>J. of Chromatogr.</u> (1979) 169:11-20	
	EK	MOORE, A.W. et al., "Microchip Separations of Neutral Species via Micellar Electrokinetic Capillary Chromatography," <u>Anal. Chem.</u> (1995) 67: 4184-4189	

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	EL	MUNRO, N.J. et al., "Charged Cyclodextrin-Mediated Sample Stacking in Micellar Capillary Electrophoresis. A Simple Method for Enhancing the Detection Sensitivity of Hydrophobic Compounds," <u>Journal of Chromatography</u> (1999) 731:369-381	
	EM	NISHI, H. et al., "Application of Micellar Electrokinetic Chromatography to Pharmaceutical Analysis," <u>Electrophoresis</u> (1990) 11:691-701	
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	EO	ORSTEIN, L., "Disc Electrophoresis-I Background and Theory*," <u>Ann. N.Y. Acad. Sci.</u> (1964) 121:321-349	
	EP	OSBOURN, D. et al., "On-Line Preconcentration Methods for Capillary Electrophoresis," <u>Electrophoresis</u> (2000) 21:2768-2779	
	EQ	OTSUKA, K. et al., "Chiral Separations by Micellar Electrokinetic Chromatography with Sodium N-dodecanoyl-L-valinate," <u>J. of Chromatogr.</u> (1991) 559:209-214	
	ER	PALMER, J. et al., "A Universal Concept for Stacking Neutral Analytes in Micellar Capillary Electrophoresis," <u>Anal. Chem.</u> (1999) 71:1679-1687	
	ES	PALMER, J. et al., "Stacking Neutral Analytes in Capillary Electrokinetic Chromatography with High-Salt Sample Matrixes," <u>Anal. Chem.</u> (2000) 72:1941-1943	
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FA	QUIRINO, J.P. et al., "Large Volume Sample Stacking of Positively Chargeable Analytes in Capillary Zone Electrophoresis Without Polarity Switching: Use of Low Reversed Electroosmotic Flow Induced by a Cationic Surfactant at Acidic pH," <u>Electrophoresis</u> (2000) 21:355-359
FB	QUIRINO, J.P. et al., "Approaching a Million-Fold Sensitivity Increase in Capiillary Electrophoresis with Direct Ultraviolet Detection: Cation-Selective Exhaustive Injection and Sweeping," <u>Anal. Chem.</u> (2000) 72:1023-1030
FC	QUIRINO, J.P. et al., "Sweeping of Neutral Analytes in Electrokinetic Chromatography with High-Salt-Containing Matrixes," <u>Anal. Chem.</u> (2000) 72:1934-1940
FD	QUIRINO, J.P. et al., "Strategy for On-Line Preconcentration in Chromatographic Separations," <u>Anal. Chem.</u> (2001) 73:5539-5543
FE	QUIRINO, J.P. et al., "On-Line Preconcentration in Capillary Electrochromatography Using a Porous Monolith Together with Solvent Gradient and Sample Stacking," <u>Anal. Chem.</u> (2001) 73:5557-5563
FF	RAMSEY, J.M. et al., "Microfabricated Chemical Measurement Systems," <u>Nature Medicine</u> (1995) 1:1093-1096
FG	ROSS, D. et al., "Microfluidic Temperature Gradient Focusing," <u>Anal. Chem.</u> (2002) 74:2556-2564
FH	SALIMI-MOOSAVI, H. et al., "Biology Lab-on-a-Chip for Drug Screening," Solid-State Sensor and Actuator Workshop (1998) 350-353
FI	SEILER, K. et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> (1993) 65:1481-1488
FJ	SEILER, K. et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow within a Manifold of Capillaries on a Glass Chip," <u>Anal. Chem.</u> (1994) 66:3485-3491
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FL	VAZQUEZ, M. et al., "Electrophoretic Injection within Microdevices," (2002) 74:1952-1961
FM	VERHEGGEN, T.P.E.M. et al., "Simple Sampling Device for Capillary Isotachophoresis and Capillary Zone Electrophoresis," <u>J. of Chromatogr.</u> (1988) 452:615-622
FN	WANG, C. et al., "Integration of Immobilized Trypsin Bead Beds for Protein Degestion within a Microfluidic Chip Incorporating Capillary Electrophoresis Separations and an Electrospray Mass Spectrometry Interface," <u>Rapid Commn. Mass Spectrom.</u> (2000) 14:1377-1383
FO	WEI, W. et al., "One-Step Concentration of Analytes Based on Dynamic Change in pH in Capillary Zone Electrophoresis," <u>Anal. Chem.</u> (2002) 74:934-940
FP	WEISS, D.J. et al., "pH-Mediated Field-Amplified Sample Stacking of Pharmaceutical Cations in High-Ionic Strength Samples," <u>Electrophoresis</u> (2000) 22:59-65

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known			
		Application Number			
		Filing Date	Herewith		
		First Named Inventor	Chien		
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		Examiner Name	Nogu r la		
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	FQ	WOOLLEY, A.T. et al., "Ultra-High-Speed DNA Fragment Separations Using Microfabricated Capillary Array Electrophoresis Chips," <u>Proc. Natl. Acad. Sci. USA</u> (1994) 91:11348-11352	
	FR	WOOLLEY, A.T. et al., "Functional Integration of PCR Amplification and Capillary Electrophoresis in a Microfabricated DNA Analysis Device," <u>Anal. Chem.</u> (1996) 68: 4081-4086	
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	FU	XIONG, Y. et al., "Base Stacking: pH-Mediated On-Column Sample Concentration for Capillary DNA Sequencing," <u>Anal. Chem.</u> (1998) 70:3605-3611	
	FV	YANG, H. et al., "Sample Stacking in Laboratory-on-a-Chip Devices," <u>J. of Chromatography</u> (2001) 924:155-163	
	FW	ZHANG, B. et al., "Microfabricated Devices for Capillary Electrophoresis-Electrospray Mass Spectrometry," <u>Anal. Chem.</u> (1999) 71:3258-3264	
	FX	ZHANG, C.X. et al., "Head-Column Field-Amplified Sample Stacking in Binary System Capillary Electrophoresis: A Robust Approach Providing over 1000-Fold Sensitivity Enhancement," <u>Anal. Chem.</u> (1996) 68:2523-2532	
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